

ABSTRACT OF THE DISCLOSURE

Novel compositions containing $\text{SF}_4\text{-O-CF}_3$ bonded to an organic group are disclosed. Aryl trifluoromethoxytetrafluorosulfuranes (or $\text{Ar-SF}_4\text{-O-CF}_3$), have been synthesized via the reaction of an aryl disulfide or thiol with fluoroxytrifluoromethane (F_3COF). The compositions are useful synthons, which may be derivatized to yield highly electrically polar molecules, particularly novel liquid crystal compositions having high dielectric anisotropies. Cycloalkyl trifluoromethoxytetrafluorosulfuranes have similar utility.

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